

CLAIMS

1. An image processing system comprising:

an image capturing unit; and

an image processing unit,

the image capturing unit comprising: an image pick-up optical system which picks-up an image of a subject; an image pick-up device unit which obtains a subject signal from the subject; a plurality of illuminating light sources with different characteristics of spectroscopic distributions; and a photographing operating unit which performs an image photographing operation, the image capturing unit interlocking the plurality of illuminating light sources with an exposure timing of the image pick-up device unit, selectively lighting-on the plurality of illuminating light sources, and thus obtaining a plurality of subject spectroscopic images, and

the image processing unit comprising: an image memory unit which stores the subject spectroscopic images photographed by the image pick-up unit; and the image processing unit calculates a desired image based on the image signal stored in the image memory unit.

2. The image processing system according to Claim 1, wherein the image processing unit further calculates,

classifies, or analyzes a predetermined class of the subject based on the image signal stored in the image memory unit.

3. The image processing system according to Claim 1, wherein the image capturing unit further comprises an illuminating detecting sensor which senses characteristics of spectroscopic distributions of ambient light, an external strobe light-emitting device is attachable to the image capturing unit, a sensing unit of the illuminating detecting sensor is optically connected to a light guide path of strobe light upon the external strobe light-emitting device is attached to the image capturing unit.

4. The image processing system according to Claim 1, wherein the image capturing unit further comprises reflected light rejecting means which prevents the illuminating light source from being photographed to the subject.

5. The image processing system according to Claim 1, wherein the image capturing unit further comprises an optical member which reduces the illuminating unhomogeneity between the illuminating light source and the subject.

6. The image processing system according to Claim 1, wherein the image capturing unit further comprises a

connecting contact portion for interlocking with an external illuminating device, and the external illuminating device connected via the connecting contact portion is lit-on in the light-on sequence similar to that of the illuminating light sources.

7. The image processing system according to Claim 1, wherein the plurality of illuminating light sources include at least one of a light source with the center wavelength of 780 to 900 nm or a light source with the center wavelength of 300 to 380 nm.

8. The image processing system according to Claim 1, wherein the image capturing unit and the image processing unit are integrally formed.

9. The image processing system according to Claim 1, wherein the image capturing unit includes a color chip for calibration in the image processing unit.

10. The image processing system according to Claim 1, wherein the image capturing unit uses a portable terminal device having a photographing function, and an illuminating light source unit having a plurality of illuminating light sources as one unit having different characteristics of

spectroscopic distributions is attachable to the portable terminal device having the photographing function.

11. The image processing system according to Claim 1, wherein the image processing unit comprises image filing software, and image data photographed upon operating the photographing operating unit is recorded to a predetermined portion of the image filing software.

12. The image processing system according to Claim 1, wherein the image capturing unit further comprises subject portion sensing means which obtains positional information of the subject.

13. The image processing system according to Claim 1, wherein the image capturing unit further comprises a temperature measuring unit.

14. The image processing system according to Claim 1, wherein the image capturing unit further comprises a pulse rate measuring unit.

15. The image processing system according to Claim 1, wherein the image capturing unit further comprises an auscultation function.

16. The image processing system according to Claim 1, wherein the image capturing unit further comprises distance measuring means which manages the size of the subject in the photographed image.